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INFORMATION DISCLOSURE	Application Number	09/963,340	
STATEMENT BY APPLICANT	Filing Date	September 24, 2001	
STATEMENT DI ALL CIOANT	First Named Inventor	Mark A. Conkling	
(use as many sheets as necessary)	Group Art Unit	1638	
(use as many sneets as necessary)	Examiner Name	Russell Kallis	
Sheet H1 of H3	Attorney Docket Number	5051-338CT	

		U.S.	PATENTS A	ND PATENT PUBLICATIONS		
Examiner	Cite No.	Cite No. U.S. Patent Document		Name of Patentee or Applicant of Cited	Date of Publication of Cited Document	
Initials*		Number	Kind Code (if known)	- Document	MM-DD-YYYY	
,	1.	US- 4,557,280		Gravely et al.	12-10-1985	
	2.	US- 4,793,367		Brackmann	12-27-1988	
	3.	US- 6,065,592		Wik	05-23-2000	
	4.	US- 7,304,220	B2	Conkling et al.	12-04-2007	
	5.	US- 2006/0157072	A1	Albino et al.	07-20-2006	
	6.	US- 2007/0240728	A1	Hashimoto et al.	10-18-2007	

Examiner	Cite	Cite Foreign Patent Document		Name of Patentee or Applicant of Cited	Date of	Translation	
Initials*	No.	Office	Number	Kind Code (if known)	Document	Publication of Cited Document MM-DD-YYYY	
	7.	WO	98/05226	A1	Williams	02-12-1998	
	8.	WO	2008/020333	A2	National Research Council of Canada	02-21-2008	
	9.	WO	2008/070274	A2	North Carolina State University; University of Kentucky Research Foundation	06-12-2008	

		OTHER NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Т
	10.	ADAMS et al. "Tobacco-Specific Nitrosamine Accumulation in Different Genotypes of Burley Tobacco at Different Stages of Growth and Air-Curing" TCRC (35 pages) (1987)	
	11.	ARNDT et al. "Gene Regulation by Antisense RNA in the Fission Yeast Schizosaccharomyces pombe" Mol. Gen. Genet. 248 :293-300 (1995)	
WHI.	12.	BOURQUE. "Antisense Strategies for Genetic Manipulations in Plants" Plant Science 105:125-149 (1995)	
	13.	BRANCH. "A Good Antisense Molecule is Hard to Find" TIBS 23:45-50 (1998)	
	14.	BURTON and BUSH. "A Review on the Accumulation of Tobacco-Specific Nitrosamines in Air-Cured Tobaccos" CORESTA Meeting, Agro-Phyto Groups, Suzhou, China, Abstract AP41 (1999)	
	15.	BUSH et al. "Biosynthesis and Metabolism of Nicotine and Related Alkaloids" In: Nicotine and Related Alkaloids: Absorption, Distribution, Metabolism and Excretion, Eds. J.W. Gorrod and J. Wahren, Chapman & Hall, London, pp.1-30 (1993)	
	16.	CORNELISSEN. "Nuclear and Cytoplasmic Sites for Anti-Sense Control" Nucleic Acids Research 17(18):7203-7209 (1989)	
	17.	DE LANGE et al. "Conditional Inhibition of β-Glucuronidase Expression by Antisense Gene Fragments in Petunia Protoplasts" <i>Plant Molecular Biology</i> 23 :45-55 (1993)	
•	18.	DE ROTON et al. "Factors Influencing the Formation of Tobacco-Specific Nitrosamines in French Air- Cured Tobacco in Trials and at the Farm Level" Beitrage zur Tabakforschung International / Contributions to Tobacco Research 21(6):305-320 (2005)	
	19.	DE ROTON et al. "Study of Factors Influencing the Concentration of Tobacco-Specific Nitrosamines (TSNA) in Air-Cured Tobaccos" CORESTA Congress, Lisbon, Portugal, Abstract AP4 (2000)(2 pages)	
	20.	EUCH et al. "Expression of Antisense Chalcone Synthase RNA in Transgenic Hybrid Walnut Microcuttings. Effect on Flavonoid Content and Rooting Ability" <i>Plant Molecular Biology</i> 38 :467-479 (1998)	
	21.	FAN et al. "Antisense Suppression of Phospholipase Dα Retards Abscisic Acid- and Ethylene- Promoted Senescence of Postharvest Arabidopsis Leaves" <i>The Plant Cell</i> 9 :2183-2196 (1997)	

Examiner Signature	Date Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		OTHER NON PATENT LITERATURE DOCUMENTS	
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	22.	FETH et al. "Regulation in Tobacco Callus of Enzyme Activities of the Nicotine Pathway" <i>Planta</i> 168 : 402-407 (1986)	
	23.	FUJISAWA et al. "Suppression of the Heterotrimeric G Protein Causes Abnormal Morphology, Including Dwarfism, in Rice" <i>PNAS USA</i> 96 :7575-7580 (1999)	
	24.	HAMADA et al. "Modification of Fatty Acid Composition by Over- and Antisense-Expression of a Microsomal ω-3 Fatty Acid Desaturase Gene in Transgenic Tobacco" <i>Transgenic Research</i> 5 :115-121 (1996)	
	25.	HARRIS. "Smoke Yields of Tobacco-Specific Nitrosamines in Relation to FTC Tar Level and Cigarette Manufacturer: Analysis of the Massachusetts Benchmark Study" <i>Public Health Reports</i> 116 :336-343 (2001)	
	26.	HECHT et al. "Environmental Carcinogens Selected Methods of Analysis. II.2 Tobacco and Tobacco Smoke (Volatile and Tobacco-Specific Nitrosamines). II.2.d Tobacco-Specific Nitrosamines in Tobacco and Tobacco Smoke" <i>World Health Organization</i> , International Agency for Research on Cancer, IARC Publications 45 :93-101 (1983)	
	27.	HECHT et al. "Environmental Carcinogens Selected Methods of Analysis. IV.6 HPLC-TEA of Tobacco Specific Nitrosamines" World Health Organization, International Agency for Research on Cancer, IARC Publications 45 :429-436 (1983)	
	28.	HECHT et al. "N-Nitroso Compounds: The Metabolism of Cyclic Nitrosamines" ACS Symposium Series, 174(4):49-75 (1981)	
	29.	HEMPFLING. "Justification of Low-Nicotine Tobacco (Lnt) Project with Calgene, Inc." Philip Morris Collection Bates No. 2024944558 (June 5, 1998)(3 pages)	
	30.	HIATT et al. "Production of Antibodies in Transgenic Plants" Nature 342:76-78 (1989)	
	31.	HOFFMANN et al. "Chemical Studies on Tobacco Smoke LXVIII. Analysis of Volatile and Tobacco-Specific Nitrosamines in Tobacco Products" In: N-Nitroso Compounds: Analysis, Formation and Occurrence, Eds. E.A. Walker et al. IRAC Scientific Publication No. 31, International Agency for Research on Cancer, Lyon, France, pp.507-515 (1980)	
	32.	HOFFMAN et al. "Environmental Carcinogens Selected Methods of Analysis. II.2 Tobacco and Tobacco Smoke (Volatile and Tobacco-Specific Nitrosamines). II.2.b Volatile Nitrosamines in Tobacco and Mainstream and Sidestream Smoke and Indoor Environments" World Health Organization, International Agency for Research on Cancer, IARC Publications 45:69-83 (1983)	
	33.	HOLTON et al. "Cloning and Expression of Flavonol Synthase From <i>Petunia hybrida</i> " The <i>Plant Journal</i> 4(6):1003-1010 (1993)	
and the second s	34.	JUDELSON et al. "Expression and Antisense Inhibition of Transgenes in <i>Phytophthora infestans</i> is Modulated by Choice of Promoter and Position Effects" <i>Gene</i> 133 :63-69 (1993)	
	35.	KUIPERS et al. "Factors Affecting the Inhibition by Antisense RNA of Granule-Bound Starch Synthase Gene Expression in Potato" <i>Mol. Gen. Genet.</i> 246 :745-755 (1995)	
	36.	KUIPERS et al. "Field Evaluation of Transgenic Potato Plants Expressing an Antisense Granule-Bound Starch Synthase Gene: Increase of the Antisense Effect During Tuber Growth" <i>Plant Molecular Biology</i> 26 :1759-1773 (1994)	
	37.	LEGG et al. "Inheritance of Percent Total Alkaloids in Nicotiana tabacum L." <i>J. Hered.</i> 60 :213-217 (1969)	
,	38.	LOESCH-FRIES et al. "Cloning of Alfalfa Mosaic Virus Coat Protein Gene and Antisense RNA into Binary Vector and Their Expression in Transformed Tobacco Tissue" <i>Molecular Strategies for Crop Protection</i> , p.41 (Abstract)	
	39.	MINGWU. "The Source and the Regulation of Nitrogen Oxide Production for Tobacco-Specific Nitrosamine Formation During Air-Curing Tobacco" Dissertation, University of Kentucky (206 pages) (1998)	
	40.	MOL et al. "Regulation of Plant Gene Expression by Antisense RNA" FEBS 268:427-430 (1990)	-
	41.	MURFETT et al. "Antisense Suppression of S-RNase Expression in <i>Nicotiana</i> Using RNA Polymerase II- and III-Transcribed Gene Constructs" <i>Plant Molecular Biology</i> 29 :201-212 (1995)	
	42.	REZAIAN et al. "Anti-Sense RNAs of Cucumber Mosaic Virus in Trangenic Plants Assessed for Control of the Virus" <i>Plant Molecular Biology</i> 11 :463-471 (1988)	

Examiner Signature	Date Considered	

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	43.	SAEDLER and BALDWIN. "Virus-Induced Gene Silencing of Jasmonate-Induced Direct Defences, Nicotine and Trypsin Proteinase-Inhibitors in <i>Nicotiana attenuata" Journal of Experimental Botany</i> 55 (395):151-157 (2004)	
	44.	SCHUCH et al. "Control and Manipulation of Gene Expression During Tomato Fruit Ripening" <i>Plant Molecular Biology</i> 13 :303-311 (1989)	
	45.	SESSA and FLUHR. "The Expression of an Abundant Transmitting Tract-Specific Endoglucanase (Sp41) is Promoter-Dependent and Not Essential for the Reproductive Physiology of Tobacco" <i>Plant Molecular Biology</i> 29 :969-982 (1995)	And the second s
	46.	SINCLAIR et al. "Analysis of Wound-Induced Gene Expression in <i>Nicotiana</i> Species with Contrasting Alkaloid Profiles" <i>Functional Plant Biology</i> 31 :721-729 (2004)	
	47.	SINCLAIR et al. "Molecular Characterization of Quinolate Phosphoribosyl Transferase (QPRTase) in Nicotiana" Plant Molecular Biology 44 :603-617 (2000)	
	48.	SMITH et al. "Inheritance and Effect on Ripening of Antisense Polygalacturonase Genes in Transgenic Tomatoes" <i>Plant Molecular Biology</i> 14 :369-379 (1990)	
	49.	SONG et al. "Antisense Expression of the Peptide Transport Gene AtPTR2-B Delays Flowering and Arrests Seed Development in Transgenic Arabidopsis Plants" <i>Plant Physiology</i> 114 :927-935 (1997)	
	50.	STEPANOV et al. "Tobacco-Specific Nitrosamines in New Tobacco Products" <i>Nicotine & Tobacco Research</i> 8 (2):309-313 (2006)	
	51.	STEPPUHN et al. "Nicotine's Defensive Function in Nature" PLoS Biology 2(8):1074-1080 (2004)	
	52.	Supplementary European Search Report, Application No. EP 01990934.0, Dated July 22, 2005 (3 pages)	
A 11-11-11-11-11-11-11-11-11-11-11-11-11-	53.	THEOLOGIS et al. "Use of a Tomato Mutant Constructed With Reverse Genetics to Study Fruit Ripening, a Complex Developmental Process" <i>Developmental Genetics</i> 14 :282-295 (1993)	
	54.	TRICKER et al. "Topics Related to N-Nitrosamines and Their Precursors" 45 th TCRC, October 20-23 (1991)	
	55.	VAN DER KROL et al. "Inhibition of Flower Pigmentation by Antisense CHS Genes: Promoter and Minimal Sequence Requirements for the Antisense Effect" <i>Plant Molecular Biology</i> 14 :457-466 (1990)	
	56.	VOELCKEL et al. "Anti-Sense Expression of Putrescine N-Methyltransferase Confirms Defensive Role of Nicotine in Nicotiana sylvestris Against Manduca sexta" Chemoecology 11:121-126 (2001)	
	57.	WATSON et al. "Reduction of Tomato Polygalacturonase β Subunit Expression Affects Pectin Solubilization and Degradation During Fruit Ripening" <i>The Plant Cell</i> 6 :1623-1634 (1994)	
	58.	XIE et al. "Biotechnology: A Tool for Reduced-Risk Tobacco Products – The Nicotine Experience From Test Tube to Cigarette Pack" 58 th Tobacco Science Research Conference, pp.17-37 (2004)	
	59.	ZHANG et al. "Expression of Antisense or Sense RNA of an Ankyrin Repeat-Containing Gene Blocks Chloroplast Differentiation in Arabidopsis" <i>The Plant Cell</i> 4 :1575-1588 (1992)	

Examiner Signature		Date Considered	
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